

**100475 EasyDiagnost Eleva DRF, Release 5.0**

**System Type:** New  
**Freight Terms:** FOB Destination  
**Warranty Terms:** Part numbers beginning with two (2) asterisks (\*\*) are covered by a Per Contract. All other part numbers are third (3rd) party items.  
**Special Notations:** Contingencies must be removed 120 days before scheduled shipment to assure delivery on specified date.  
**Additional Terms:** Any rigging costs are the responsibility of the Purchaser.

Line #	Part #	Description	Qty
1	**NNAH522	Easy Diagnost HiPer Bariatric EasyDiagnost Eleva DRF	1

The EasyDiagnost Eleva is a nearby controlled (conventional) R/F system for routine radiographic and fluoroscopic examinations like barium and iodine studies, dedicated vascular and non-vascular diagnostics as well as interventional procedures. All system controls are at tableside, so in every phase of the examination the patient can get full attention. The spring balanced servo assisted tower allows easily controlled movements. The system can easily be integrated in today's hospital and departmental workflow requirements.

Comprising:

- EasyDiagnost Eleva Stand and Spot Film Device Digital
- Eleva concept
- Ergonomic Eleva User Interfaces
- Accessories
- Remote access

EasyDiagnost Eleva Stand and Spot Film Device Digital

The high quality R/F stand is designed with life-time quality in mind. From the choice of the materials up to the process oriented production line, the EasyDiagnost Eleva sets world standards in production quality and reliability.

The Spot film device ensures easy handling in every phase of the examination.

- Durable and top quality stand, supporting an under table tube
- Servo assisted longitudinal and vertical movement of the tower for exact and fast positioning of the X-ray beam in all tilt positions
- Spring balanced and servo assisted compression movements for effortless GI work
- Covered table mechanics for protection of patient and user as well as an easy to clean system
- Anti-collision protection ensures safe movement of the stand during tilting and avoids damage to movable items (like stools, trolleys etc.)
- Compression stop that can be set in various positions for patient safety e.g. myelograms

Stand specifications:

Aramid tabletop

- Size 200 cm x 69 cm (78.7 inch x 27.2 inch)

## 100475 EasyDiagnost Eleva DRF, Release 5.0

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	<ul style="list-style-type: none"><li>Maximum load 275 kg (606 lbs.) positioned in horizontal (0 degrees) table position or maximum load 250 kg (550 lbs.) in tilting table position without any longitudinal or lateral movement of the table plate or maximum load 180 kg (397 lbs.) in all positions</li><li>Longitudinal movement +/- 83 cm (32.7 inch), constant speed of 6 cm/s (2.4 inch/s)</li><li>Lateral movement -10 / + 9 cm, (-3.9 inch / + 3.5 inch), constant speed of 4.2 cm/s (1.7 inch/s)</li></ul>	

### Eleva Control Console

- Carrier for different image intensifier 23, 31, 38 cm (9,12 or 15 inch)
- Motorized oscillating and moveable carbon fiber covered grid 60 lines/cm (152.4 lines/inch), ratio 10:1, focus 80 cm (31.5 inch) without tube lift or 90 cm (35.4 inch) with tube lift
- AMPLIMAT measuring chamber with automatic selection of measuring fields
- Compression cone with motorized movement from and into parking position
- Automatic collimation in X- and Y-direction, secondary shutters close to image intensifier entrance
- Removable lead rubber radiation protection

X-ray shielding for under table tube operation resulting in optimal protection of the operator during routine operation

### Eleva concept and Eleva User Interfaces

The Eleva concept increases productivity by adapting the system to the way you work: The system is customizable and performs to the users specification from pre-exam to archive to support varying workflow patterns (from high throughput exams to time consuming procedures) and increase overall efficiency.

The Eleva concept features:

Customizable system pre-sets like SpectraBeam RF filter selection (option) and pre-defined print formats.

Bi-directional RIS coupling (option) automatically activating the appropriate Eleva system pre-sets to increase exam efficiency even more.

Exclusive User Interface Concept, including several modules:

- Eleva Examination Control and Hand Switch
- Eleva Stand Control at the Spot Film Device (examination room)
- Table Side Operation control (examination room)
- Eleva Footswitch (examination room)

### Eleva Examination Control

The Eleva Examination Control (including keyboard and mouse) integrates all functions for patient administration, selection of acquisition and fluoroscopy parameters as well as all controls for operating the different subsystems in one user interface. It provides convenient, logical and ergonomic arrangement of controls and displays.



## 100475 EasyDiagnost Eleva DRF, Release 5.0

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	It supports the philosophy that only those controls and related displays are active that are required for a certain type of examination.	
	Eleva Handswitch	
	Ergonomically designed handswitch for exposure control from the control room (only in connection with Ceiling Suspension).	
	Eleva Stand Control at the Spot Film Device	
	To operate the system at table side (nearby operation).	
	All standard movements, operation of main imaging functions, fluoroscopy selection, image intensifier field size selection, collimator control, etc. can be selected without leaving the patient.	
	Eleva Control Console with:	
	<ul style="list-style-type: none"><li>• Table movement controls (tilting, lateral &amp; longitudinal tabletop moves)</li><li>• Collimator control</li><li>• EasySelect display and control for Eleva settings</li><li>• SmartWindow display provides information on the system status</li><li>• Single/serial exposure technique selection</li><li>• Controls for 4 image intensifier formats</li><li>• Frame speed selection</li><li>• More operational functions needed for examinations</li></ul>	
	EasyGrip:	
	The ergonomic handle for ambidextrous one-hand operation on the system. All system controls are available at the table for full attention to the patient. The dynamic fluorograb button is integrated within reach for instantaneous grabbing of fluoroscopic images and complete runs.	
	EasySelect:	
	Eleva programming parameters, dose levels and pulse rates can be selected via 10 soft keys for easy adjustment of examination parameters partly even under fluoroscopy.	
	SmartWindow:	
	Display of guidance for all operational functions of the EasyDiagnost Eleva. A clear, situation dependent online information for error free handling is provided to the user.	
	Table Side Operation (available only with 2nd tube option):	
	Located close to the footend of the table the TSO gives the user a convenient possibility to move the tabletop with the patient in the right position for e.g. phlebography studies. Longitudinal, lateral and tilting movements can be controlled.	
	Eleva Footswitch	

Line #	Description	Qty
	For exposure and fluoroscopy control in the examination room.	
	Accessories	
	The following accessories are standard:	
	<ul style="list-style-type: none"> <li>• Detachable footrest with easy-to-clean surface</li> <li>• Pair of ergonomic handgrips</li> </ul>	
	A wide range of accessories are available as option to support the systems' multifunctional capabilities.	
	Remote access	
	Access to the system's service software procedures from a remote location via network or modem connection. Remote access to a system can shorten the time needed for e.g. changing system settings or problem diagnosis.	
	It contains:	
	<ul style="list-style-type: none"> <li>• License for use of the remote access service software</li> </ul>	
	mShield:	
	Philips mShield is part of an overall strategy to safeguard the data integrity of medical information systems.	
	It protects Philips fluoroscopy modalities from potential malicious software attacks within the hospital network.	
	It decouples the modality from the network and creates a secure environment.	
	By restricting traffic to only authorized devices, mShield acts to prevent malicious activity directed from the modality to unrelated devices on your hospital network.	
	Network communication can be restricted to DICOM communication and remote service only.	
	Thereby channels, which hackers need for attacks or which viruses need for spreading become unavailable.	
	The total system uptime can be increased.	
	The cycle time of required security upgrades (patches) can be elongated and synchronized with regular maintenance activities.	
	No valuable treatment time is lost through system downtime or staff dealing with network problems.	
	Once installed it requires almost no maintenance or update.	



Line #	Description	Qty
	Philips mShield's design is based on the latest recommendations of international industry standard bodies, such as NEMA, COCIR and JIRA, which recommend firewalls as an "effective and flexible tool" to safeguard the data integrity of medical information systems.	

The mShield hardware is designed to fit into a professional medical environment with dedicated robustness against high temperature or high- voltage hazards.

It is located between the modality and the department network.

mShield comprises:

- mShield hardware
- Software license and documentation on CD
- Dedicated modality rule types

#### Extended Digital Imaging

The Extended Digital Imaging System for the Eleva family offers high performance digital image acquisition for fluoroscopic applications. All image-processing parameters are pre-programmed instantly, so that EasyDiagnost Eleva is ready to acquire and display high quality digital images immediately. Due to the outstanding image quality, the user can prepare his diagnosis and report directly from the monitor, during or immediately after the examination.

Images can be acquired in 1K or 0,5K matrix sizes, with a maximum speed of 8 images/s or even 30 frames/s for 512 x 512 images (requires option High Speed Acquisition).

Live fluoroscopy images can be captured as single images or as complete runs. Any run of images can be displayed in a loop with adjustable speed and direction.

In addition it offers automatic on-line digital image processing and reviewing with the integrated ViewForum software.

Extended Digital Imaging offers printing facilities by preset layout, a number of preset layouts for specific examinations are available. The printing functionality can be extended with tailor-made printing protocols according to personal settings with the optional Print Protocol. Printing can be done by the touch of a button utilizing print protocols, which have been pre-programmed for the examination, making the workflow even more efficient.

Extended Digital Imaging is, in combination with the Subtracted Acquisition and Vascular Post processing option able to support vascular procedures.

Main features of Extended Digital Imaging:

- Acquisition
  - 12 bit deep digital image acquisition
  - Single and multiple shot exposures
  - Acquisition speed up to a maximum of 8 images/sec.
  - Acquisition matrix 1K or 0,5K
  - Acquisition memory of 1024 MB
  - FluoroGrab: grabbing of single fluoroscopic images

Line #	Description	Qty
	<ul style="list-style-type: none"> <li>• Dynamic FluoroGrab: grabbing of runs of fluoroscopic images</li> <li>• AutoStore of images into the ViewForum database on the hard disk</li> <li>• Viewing                             <ul style="list-style-type: none"> <li>• Easy navigation through examinations, runs and images</li> <li>• Viewing memory of 1 GB</li> <li>• On-line (re-)viewing of high quality images</li> <li>• Automatic, adaptive image processing</li> <li>• Automatic electronic shutters</li> <li>• Last Image Hold</li> <li>• Run Cycle: display of images in a loop with adjustable speed and direction</li> <li>• Flexible image overview</li> <li>• Excellent image quality by using optimized harmonization algorithms</li> <li>• Direct Mouse Manipulation (DMM)</li> <li>• User log-on</li> <li>• Default display protocols</li> <li>• Flexible screen layouts</li> <li>• Contrast, brightness, edge enhancement and grayscale inversion</li> <li>• Measurements (for length measurements in mm manual pixel size calibration is necessary)</li> <li>• Multiple free text annotation with adjustable font size</li> <li>• Copy annotation strings within a run</li> <li>• Up to 16 bit deep image processing</li> <li>• Automatic and manual asymmetric rectangular and circular electronic shutters</li> <li>• Rotate, flip</li> <li>• Zoom, zoom to shutter, pan</li> <li>• Magnification</li> </ul> </li> <li>• Printing                             <ul style="list-style-type: none"> <li>• One-touch printing according to personal settings or preset layouts</li> <li>• Manual printing with free style layout</li> <li>• True size and scaled printing</li> <li>• Multi tasking: background printing</li> <li>• Paper printing</li> <li>• DICOM print</li> </ul> </li> <li>• Storage                             <ul style="list-style-type: none"> <li>• Local storage on hard disk (minimum 72 GB)</li> <li>• AutoStore (to the hard disk) in the background</li> <li>• Archiving to e.g. PACS in the background with optional DICOM Export</li> <li>• Support of CD/DVD recording (CD/DVD-Storage SW license optional)</li> <li>• Movie export to *.avi</li> </ul> </li> <li>• CR/F prepared (patient merge function)                             <ul style="list-style-type: none"> <li>• To create a fully digital RF suite by seamless integration of CR and RF studies in the same patient folder on ViewForum</li> <li>• Simplifies workflow by providing just one single case to PACS</li> </ul> </li> </ul>	

Comprising:

- Cabinet
- Acquisition memory of 1024 MB



**100475 EasyDiagnost Eleva DRF, Release 5.0**

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	<ul style="list-style-type: none"><li>• Alpha numeric keyboard</li><li>• Quick Review Module</li><li>• ViewForum keyboard with mouse for image processing</li><li>• Infrared viewpad for reviewing and postprocessing</li><li>• 72 GB hard disk</li><li>• 1 GB viewing memory</li><li>• CD/DVD writer/reader (note: CD/DVD Storage software license is optional)</li><li>• Floppy drive (3.5")</li></ul>	

**UPS****Uninterruptable Power Supply**

The UPS feeds in case of a power breakdown the EasyDiagnost core components (System Controller, Remote Input/Output, Automatic Image Processing, ViewForum, Ethernet Switch, Firewall) to store images and/or complete the last task.

- Bridging time: 60 minutes
- Max. charging time: 6h

**Clinical Education Program for Digital R/F Systems**

**RAD Handover OnSite Education:** Clinical Education Specialist will provide one 24 hour onsite training for RAD (Digital Radiography) for up to four(4) technologists, selected by the customer including technologists from night/weekend shifts if necessary. CEU credits may be available if the participant meets the guidelines provided by Philips. Depending on your system configuration, the first four (4) hours onsite may be spent configuring new equipment for specific clinical needs, as well as reviewing important safety features and quality procedures. Please read training guidelines for more information.

**RF Handover OnSite Education:** Clinical Education Specialist will provide one 28 hour onsite training for RF (Radiographic Fluoroscopy) for up to five (5) technologists, selected by the customer including technologists from night/weekend shifts if necessary. CEU credits may be available if the participant meets the guidelines provided by Philips. Depending on your system configuration, the first four (4) hours onsite may be spent configuring new equipment for specific clinical needs, as well as reviewing important safety features and quality procedures.

Please read training guidelines for more information. Note: Site must be patient-ready. Philips personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation.

Education expires one (1) year from equipment installation date (or purchase date if sold separately). Ref#226227-080418

Both RF (28 hours) and RAD (24 hours) weeks must run consecutively and students should attend both training sessions.

Training on DVD recorders (if purchased) will be conducted by the manufacturer of the DVD recording system and not Philips Clinical Education.



Line #	Description	Qty
	System Parts	
	<ul style="list-style-type: none"> <li>989001003371 FLOOR PLATE EASY D. 45/90</li> <li>989001003392 INSULATION KIT ED 45/90</li> <li>980306030007 CABINET BOX (Quantity of 3)</li> <li>980306690109 CABLES F/ EASY DIAG-SCP INSTALL</li> <li>NRFA791 UPS</li> </ul>	
2	<b>Table Flat Detector</b> Table Flat Detector for radiographic procedures. The AMPLIMAT measuring chamber ensures right exposure times and with the user-exchangeable oscillating grid image quality is improved by the reduction of scattered radiation.  Comprising: <ol style="list-style-type: none"> <li>Bucky device digital</li> <li>XD-S workstation/package, including:               <ol style="list-style-type: none"> <li>Digital detector</li> <li>UNIQUE advanced image processing</li> <li>DICOM PRINT</li> <li>DICOM EXPORT</li> <li>DICOM WLM (if DICOM Interoperability package was selected)</li> <li>DICOM MPPS (if DICOM Interoperability package was selected)</li> </ol> </li> </ol> <ol style="list-style-type: none"> <li>Bucky device digital Bucky device for digital radiographic procedures. The AMPLIMAT measuring chamber ensures right exposure times and with the user-exchangeable oscillating grid, image quality is improved by the reduction of scattered radiation.                 Comprising:               <ul style="list-style-type: none"> <li>AMPLIMAT measuring chamber</li> <li>Oscillating grid, 40 l/cm (100 l/inch), ratio 12:1, FFD 110 cm (44 inch)</li> </ul> </li> </ol> <ol style="list-style-type: none"> <li>XD-S workstation/package including:               <ol style="list-style-type: none"> <li>Digital Flat Detector                   <ul style="list-style-type: none"> <li>Detector with field size 43 x 43 cm ( 17 x 17 inch )</li> <li>Resolution 3000 x 3000 pixel</li> <li>Pixel pitch 0.143 mm</li> <li>Pixel depth 14 bits</li> </ul> </li> <li>UNIQUE advanced image processing UNIQUE advanced multi-resolution image processing allows for optimal "Contrast Harmonization". Details will be enhanced while the overall impression remains natural. If used in combination with PCR UNIQUE, equal image impression results on both modalities.</li> <li>DICOM PRINT (for DR images only) DICOM Print interface for manual and automatic printing. DICOM Print allows for manual and automatic printing directly from the Eleva Workspot. It enables</li> </ol> </li> </ol>	1

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Line #	Description	Qty
	<p>the user to transfer images to a networked DICOM imager with the choice of different printing modes:</p> <ul style="list-style-type: none"><li>• Autoprint: automatic printing of images on predefined film layouts according to the examination</li><li>• Manual print: Manual image placement on predefined film layouts or image placement on free layout composing.</li></ul> <p>For further details, please refer to the system DICOM Conformance Statement.</p> <p>Comprising:</p> <ul style="list-style-type: none"><li>• Software license</li></ul>	
5.	<p><b>DICOM EXPORT</b></p> <p>To send DR images to the system integrated View Forum or directly to the PACS DICOM Storage SCU and Storage Commitment SCU</p> <p>The DICOM Image Export feature provides the DICOM Storage service to send DR images to the system integrated ViewForum or directly to PACS or any other DICOM destination in DICOM format.</p> <p>The Eleva Workspot supports DICOM Grayscale Display Standard. Calibration of the Eleva Workspot and the receiving DICOM node will result in consistently same high image quality.</p> <p>DICOM Image Export also includes the DICOM Storage Commitment service, allowing the Eleva Workspot to be informed by storage destination if images have been securely stored. This trigger is used by the Eleva Workspot to allow related images to be deleted locally.</p> <p>For further details, please refer to the PCR Eleva DICOM Conformance Statement.</p> <p>Comprising:</p> <ul style="list-style-type: none"><li>• Software license</li></ul>	
6.	<p><b>DICOM WLM</b></p> <p>If DICOM Interoperability package is selected, interface to Radiology Information System (RIS) is established.</p> <p>Work list handling via a DICOM Basic Work List Management (BWLM) or FTP RIS interface</p> <p>The DICOM &amp; Classic RIS connection package allows the Eleva Workspot to automatically load the acquisition modality's work list from a RIS server. The work list query can be performed 'broad' (generic) or specific (patient oriented), and both interactively (on operator request) and automatically (in background).</p> <p>For further details on DICOM BWLM, please refer to the system DICOM Conformance Statement.</p> <p>Comprising:</p> <ul style="list-style-type: none"><li>• DICOM Work List Management software license</li><li>• FTP RIS Interface software license</li></ul>	

Line #	Description	Qty
	<p>7. DICOM MPPS</p> <p>If DICOM Interoperability package is selected, DICOM Modality Performed Procedure Step (MPPS) is included.</p> <p>DICOM service for notifying the RIS server about start and end of performed procedure steps</p> <p>The messages contain references to the originating work list items (patient and procedure data), a list of exported DICOM images and post-exposure data.</p> <p>MPPS requires that the DICOM WLM feature is enabled.</p> <p>For further details, please refer to the system DICOM Conformance Statement.</p>	

3	<p><b>Digital VS vertical stand with fixed detector</b></p> <p>Digital vertical stand with motorized height setting. Enables wall stand applications for Chest and wall Bucky applications.</p>	1
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Comprising:

1. VS digital
2. XD-S workstation/package, including: Digital detector
3. UNIQUE advanced image processing
4. DICOM PRINT
5. DICOM EXPORT
6. DICOM WLM (if DICOM Interoperability package was selected)
7. DICOM MPPS (if DICOM Interoperability package was selected)

1. VS digital

- Digital vertical stand for chest and wall Bucky applications.
- Motorized vertical stand with digital Bucky unit.
- Vertical movement of detector unit 30 cm - 180 cm (12 inch - 72 inch) (centre of detector above floor).
- Counterbalanced vertical carriage
- Automatic collimation
- AMPLIMAT measuring chamber 5 fields and user interface
- Bucky unit for digital detector with oscillating grid mechanism, changeable grid and parking slit for 2 grids
- Grid 40 lines / cm (100 lines / inch), ratio 8, SID 140 cm (56 inch) (default for SID between 110 - 180 cm).

The grid specification might vary according to your selection.

2. XD-S workstation/package including Digital Flat Detector

- Detector with field size 43 x 43 cm (17 x 17 inch)
- Pixel pitch 0.143 mm
- Pixel depth 14 bits
- Release 5.0 software, AWS and EEC-A will be delivered additionally if not existent

3. UNIQUE advanced image processing

UNIQUE advanced multi-resolution image processing allows for optimal "Contrast Harmonization". Details will be enhanced while the overall impression remains natural. If used in combination with PCR UNIQUE, equal image impression results on both modalities.



Line #	Description	Qty
4.	DICOM PRINT (for DR images only)	
	<ul style="list-style-type: none"> <li>DICOM Print interface for manual and automatic printing.</li> <li>DICOM Print allows for manual and automatic printing directly from the Eleva Workspot. It enables the user to transfer images to a networked DICOM imager with the choice of different printing modes</li> <li>Autoprint: automatic printing of images on predefined film layouts according to the examination</li> <li>Manual print: Manual image placement on predefined film layouts or image placement on free layout composing.</li> <li>For further details, please refer to the system DICOM Conformance Statement.</li> </ul>	
5.	DICOM EXPORT	
	<ul style="list-style-type: none"> <li>To send DR images to the system integrated ViewForum or directly to the PACS</li> <li>DICOM Storage SCU and Storage Commitment SCU</li> </ul> <p>The DICOM Image Export feature provides the DICOM Storage service to send DR images to the system integrated ViewForum or directly to PACS or any other DICOM destination in DICOM format.</p> <p>The Eleva Workspot supports DICOM Grayscale Display Standard. Calibration of the Eleva Workspot and the receiving DICOM node will result in consistently same high image quality. DICOM Image Export also includes the DICOM Storage Commitment service, allowing the Eleva Workspot to be informed by storage destination if images have been securely stored. This trigger is used by the Eleva workspot to allow related images to be deleted locally.</p> <p>For further details, please refer to the PCR Eleva DICOM Conformance Statement.</p>	
6.	DICOM WLM	
	<p>If DICOM Interoperability package is selected, interface to Radiology Information System (RIS) is established.</p> <p>Work list handling via a DICOM Basic Work List Management (BWLM) or FTP RIS interface</p> <p>The DICOM &amp; Classic RIS connection package allows the Eleva Workspot to automatically load the acquisition modality's work list from a RIS server. The work list query can be performed 'broad' (generic) or specific (patient oriented), and both interactively (on operator request) and automatically (in background).</p> <p>For further details on DICOM BWLM, please refer to the system DICOM Conformance Statement.</p>	
7.	DICOM MPPS	
	<p>If DICOM Interoperability package is selected, DICOM Modality Performed Procedure Step (MPPS) is included.</p> <p>DICOM service for notifying the RIS server about start and end of performed procedure steps</p> <p>Messages contain references to the originating work list items (patient and procedure data), a list of exported DICOM images and post exposure data. MPPS requires that the DICOM WLM feature is enabled.</p> <p>For further details, please refer to the system DICOM Conformance Statement.</p>	
	The VERTICAL STAND DIGITAL is compatible with:	
	<ul style="list-style-type: none"> <li>Holder for infant position (BABIX)</li> <li>BWS floor fixing device</li> </ul>	

Line #	Description	Qty
4	<b>Motorized tilting of the VS vertical stand</b> The motorized tilting option for VS vertical stand brings workflow enhancements on the system by enabling the upright Bucky unit to be automatically placed in different positions.  Main benefits at a glance: Extends the possible application range to extremities, skeletal examinations, and even under-table examinations using a trolley. Reduces technologist physical involvement by providing motorized tilting movements. Tilting by just pressing a move-to-position button or by pressing and holding a dedicated movement button (e.g. vertical movement of the Bucky unit). Motorized height adjustment from 30 to 180 cm (11.8" to 5' 11") with two different speeds, plus manual operation for precise positioning. Convenient user interfaces on both left and right sides of the Bucky unit, for quick and easy adjustment of movements, including motorized tilting.  Specifications:  <ul style="list-style-type: none"> <li>• Tilt from -20° to +90° horizontal position, via 0° vertical position</li> <li>• Vertical movement range: 30 to 180 cm (11.8" to 5' 11"), measured at center of Bucky unit</li> </ul> Comprising:  <ul style="list-style-type: none"> <li>• Tilting mechanism between vertical stand column and Bucky unit</li> <li>• Electronic controlled motor drive</li> <li>• Set of cables</li> <li>• Software license</li> </ul>	1
5	<b>Tracking for BuckyDiagnost CS</b> Tracking is a system option whereas the tube follows the image receptor in the Bucky wall stand in vertical and tilted position. It supports a smooth workflow and enables the user to maximize patient interaction.  <u>Comprising:</u>  <ul style="list-style-type: none"> <li>• Adjustable SID</li> <li>• Motorized drive of vertical tube movement</li> <li>• Electronic motor control board with software</li> <li>• Height sensor in Bucky wall stand</li> </ul>	1
6	<b>Ceiling suspension including tube SRO 33100</b> Ceiling suspension for over-table radiographic work with ergonomic handle, control buttons, and release brake, as well as convenient color-coding of movements. Wide 16.5 cm (6.5") LCD display on tube head for clear status information. Integrated centering laser in the tube head for easy positioning.  <ul style="list-style-type: none"> <li>• Four-part aluminium telescopic column with spring counter balanced holder for X-ray tube assembly, adaptable to individual room heights</li> <li>• Ceiling height at source-image distance 110 cm (44"): 2.65 m to 3.20 m (8' 8.3" to 10' 5.9")</li> </ul>	1



Line #	Description	Qty
	<ul style="list-style-type: none"> <li>Minimum ceiling source distance: 87.1 cm (34.3")</li> <li>Possible room height adjustment: 37.5 cm (14.8")</li> <li>Lowest tube position: 30 cm (11.8") measured from center of beam to the floor</li> <li>Length of rails: base rails 4.3 m (14' 1.3"), optional rails extension 2.7 m (8' 10.3")</li> <li>Longitudinal travel: 3.44 m (11' 3.4"), 6.14 m (20' 1.7") with rails extension option</li> <li>Transverse travel: 1.50 m (4' 11") with short transverse rails, 3.22 m (10' 6.7") with long transverse rails</li> <li>Vertical travel: 1.65 m (5' 5.2")</li> <li>Rotation of focal spot around vertical axis of column: 360° (±180°), with rotation stop +180°/-165° and lock position every 45°</li> <li>Angulations of focal spot around horizontal axis: ±125°, lock positions 0° and ±90°</li> </ul>	

## Control handle

- Centering device in longitudinal and transversal directions
- Brake/locking controls and central three-axis brake-release at lowest position of handle
- Wide 16.5cm (6.5") LCD information display and control buttons

## Automatic Collimator

- Motorized automatic collimation, manual overrule possible, with light field indicator
- Angle of aperture and rotation: 2 x 15°, ±45°, depending on the collimator (see type number plate)
- Timer switch: up to 30 s
- Inherent filter value: <0.3 mm at 100 kV, depending on the collimator
- Added filters: 2 mm Al or 1 mm Al + 0.1 mm Cu or 1 mm Al + 0.2 mm Cu
- Source-image distance measurement tape

Equipment for cassette size sensing (automatic collimation) and automatic beam limitation for radiographic exposures on EasyDiagnost Eleva's second plane for improved workflow. Sensing functionality detects the size of the inserted cassette or Portable detector and adjusts the shutters to the correct field size.

## Comprising:

Sensing functionality in the automatic collimator

## X-ray tube SRO 33100:

High quality SRO 33 100 Super ROTALIX tube for the EasyDiagnost Eleva system.

## Specification:

- Tube voltage 40 - 150 kV
- Nominal focal spot values 0.6 / 1.2 (IEC 336/93)



Line #	Description	Qty
	<ul style="list-style-type: none"> <li>Anode diameter 90 mm</li> <li>Anode target angle: 13 degrees</li> <li>Anode heat storage capacity 300 kWh (220 kJ)</li> <li>Maximum continuous heat dissipation 250 W (with cooling)</li> <li>Maximum heat content of assembly 1700 kWh (1260 kJ)</li> <li>ROT 360 air-cooled ROTALIX housing with thermal safety switch.</li> </ul>	

7	15" I.I./TV-CCD	1
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**15-Inch (38 cm) Image Intensifier**

Image Intensifier / Television subsystem: X-ray imaging subsystem for fluoroscopy and Digital Imaging for EasyDiagnost Eleva

Image Intensifier

- 15-inch (38 cm) multi-mode image intensifier
- Possible field sizes: 15 12.2 9.8 and 6.7" (38 31 25 and 17 cm)
- Titanium input screen for high spatial resolution high DQE and low dose.
- Fibre optic output screen for high light-transfer efficiency and high contrast.

CCD

- Camera
- TV chain with 1024 x 1024 matrix CCD camera
- Horizontal and vertical scan reversal
- Average automatic dose rate control (ADC)
- Automatic gain control (AGC)
- Variable measuring fields

8	20 DEGREES TRENDLENBURG	1
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**20 Degrees Trendelenburg**

90/20tilting of the entire tabletop of the EasyDiagnost Eleva. This standard setting enables the user to move the patient from an upright position to a 20° head-down position (Trendelenburg) for various applications like stomach colon or myelography etc.

A variable speed allows a smooth and careful start; acceleration to 6° moves the table quickly in the required position. Standardly the system slows down and stops at 0° for the user's convenience. A "no-stop" button next to the tilting handle avoids a stop in 0° position if an uninterrupted movement is required.

**Specifications:**

- Positive tilting angle: 90°

Line #	Description	Qty
	<ul style="list-style-type: none"> <li>Negative tilting angle: 20°(Trendelenburg position)</li> <li>Tilting speed: Variable from 0-6°</li> <li>-Tilting movement controls at Spot film device as well as on the tableside operation console (TSO) in case the over-table tube (option) is available</li> </ul>	

<b>9</b>	<b>80 kW Generator with IQX</b>	<b>1</b>
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The 80 kW power pack is a microprocessor-controlled X-ray generator with sophisticated high-frequency inverter technology.

The generator is designed for a wide range of fluoroscopy and radiography applications. The unique dose-management system supports features like Grid Controlled Fluoroscopy, Pulsed Fluoroscopy and IQX. The generator is engineered for long-term reliability and a minimum single-space requirement.

**Specification:**

- Automatic and manual exposure techniques and automatic kV reduction (bolus chase)
- The generator supports the IQX function which regulates exposure settings during the exposure pulse (in-pulse controlled)
- Exposure output power:
  - kV 40 - 150 kV (Second beam table and wall Bucky)
  - 40 - 125 kV (II TV exposures)
  - mA 1 - 1100 mA
  - ms 1 ms - 4 s with AEC (Automatic Exposure Control)
  - 1 ms - 16 s without AEC
- Manual:
  - Two factor technique (kV - mAs)
  - Three factor technique (kV - mA - s)
- Automatic:
  - One factor falling load (kV)
  - Two factor constant load (kV/mA)

**Automatic kV reduction (bolus chase)**

**Support of IQX Intelligent exposure**

- Fluoroscopy techniques:  
For enhanced image quality and dose management the generator supports continuous fluoroscopy, Grid Controlled Fluoroscopy (option) and Pulsed Fluoroscopy (option) techniques
- Fluoroscopy output power:
  - kV 40 - 110 kV
  - mA 0.2 - 6 mA
- Access times:
  - from fluoroscopy standby to fluoroscopy mode: < 0.3 s
  - from fluoroscopy to radiography mode: 0.4 - 0.8 s (dep. on tube)
  - from radiography to fluoroscopy mode: 0.4 s
- Up to two double-focus tubes can be operated by a dual-speed rotor control Philips compatible tubes : RO, SRO, SRM
- Area Dose Calculation and display (option) and fluoroscopy entrance dose rate limitation

Line #	Description	Qty
	<ul style="list-style-type: none"> <li>Automatic mains adaptation</li> </ul> <p>IQX provides excellent, reliable and consistent image quality for digital exposures, both in static and dynamic studies. IQX controls and adapts the exposure parameters within the X-ray pulse. The automatic and fast regulation of kV during each exposure leads to crisp image quality for all types of studies, for all patients.</p> <p><u>IQX features:</u></p> <ul style="list-style-type: none"> <li>Short exposure times eliminates motion blur. Exposure times are kept within an application-dependent customizable time range. This ensures that every single image is correctly exposed and free from motion blur, even with rapidly changing density.</li> <li>Automatic kV-optimization. IQX automatically adjusts the settings, relative to the standard kV-value recommended for a particular organ type. Thus the settings are optimized for the actual object density.</li> <li>Fast, in-pulse adaptation to (changes in) density. This kV-adjustment takes place within the first millisecond of the exposure, enabling adaptation to sudden changes in object density (e.g. during dynamic studies).</li> </ul> <p>Tube voltage: 55 -125 kV Controlling range: customizable relative to a defined start value</p>	
10	<p><b>DOSE CALCULATION</b></p> <p><b>Dose Calculation</b></p> <p>Area dose product and patient entrance dose are calculated from the values of the examination known in the Eleva system (kV mA time patient settings etc.)</p> <p>The system calculates and provides the values for:</p> <ul style="list-style-type: none"> <li>area dose</li> <li>area dose rate -entrance dose</li> <li>entrance dose rate and displays those on the Eleva Examination Control and on a Reference monitor (optional)</li> </ul> <p>Includes:</p> <ul style="list-style-type: none"> <li>Dose calculation software license</li> </ul> <p>Compatible with:</p> <ul style="list-style-type: none"> <li>EasyDiagnost Eleva</li> </ul>	1
11	<b>DoseWise incl. GCF</b>	1



Line #	Description	Qty
	SRM 22 50 Super ROTALIX Metal tube assembly, including tube housing and automatic collimator in combination with Grid Controlled Fluoroscopy (GCF).	

#### Grid Controlled Fluoroscopy

GCF is a Philips exclusive method of pulsed fluoroscopy, providing superb image quality at minimum dose. This is achieved by the use of a grid-switched X-ray tube SRM 22 50 and the control of X-ray parameters kV, mA and time within each single pulse (in-pulse control).

Major features of GCF are:

- Excellent image quality for fluoroscopy with each single pulse
- Maximum dose reduction
- On the fly selection of three different pulse rates (user programmable between 0.5 to 30 f/s) and continuous fluoroscopy for maximum user flexibility
- Dedicated and proprietary pediatric settings with a further decreased pulse time and an optimized kV/mA-curve
- GCF lock-in mode to maintain image quality during abrupt variations in absorption e.g. bringing lead gloves in the beam to position a patient
- Adaptive measuring fields maintain a constantly high image quality even when the field of interest is limited by shutters moving in

It contains:

- Grid controlled fluoroscopy (GCF):
  - Pulse time: 5 ms - 20 ms (typical)
  - Pulse frequency: 0.5 - 30 f/s

High-quality SRM 22 50 Super ROTALIX Metal Tube with electronic grid for EasyDiagnost Eleva and DRF room solutions.

Specification:

- Tube voltage: 40-125 kV
- Nominal focal spot values: 0.5 / 1.0 (IEC 336/93)
- Anode diameter: 100 mm
- Anode target angle: 15 degrees
- Anode heat storage capacity: 380 kHU (280 kJ)
- Maximum continuous heat dissipation: 300 W (with cooling)
- Maximum heat content of assembly: 2040 kHU (1510 kJ)

ROT 504 GS Air-Cooled ROTALIX Housing with Thermal Safety Switch

Automatic X-ray beam collimator with:

- Motor driven rectangular and circular collimation
- Power-up selftest
- Auto calibration at power-up
- Supports a maximum of 4 pre-filters programmable with SpectraBeam RF

SpectraBeam RF

Line #	Description	Qty
	<p>SpectraBeam RF is an automatic X-ray beam spectrum optimization for EasyDiagnost Eleva. Depending on personal preference, regarding dose and image quality, the optimal filter can be pre-programmed in the Eleva settings for automatic selection.</p> <p>Comprising:</p> <ul style="list-style-type: none"> <li>• Automatic, remote-controlled spectral filter disk with 4 filter values</li> <li>• 2 mm AL</li> <li>• 1 mm AL + 0.1 mm Cu</li> <li>• 1 mm AL + 0.2 mm Cu</li> <li>• None</li> </ul>	
12	<p><b>DICOM InterOperability Package</b></p> <p>DICOM Interoperability Package</p> <p>The Interoperability package provides the EasyDiagnost Eleva with a complete set of DICOM interoperability functions.</p> <p>Comprising:</p> <ul style="list-style-type: none"> <li>· DICOM Q/R &amp; Multimodality View</li> <li>· DICOM Export / Storage Commit</li> <li>· DICOM Worklist Management</li> <li>· MPPS</li> </ul> <p>DICOM Query/Retrieve and Multimodality View</p> <p>EasyDiagnost with Extended Digital Imaging supports DICOM Import (DICOM Store (SCP)), meaning that a DICOM mode can push images into the Extended Digital Imaging database.</p> <p>The DICOM Q/R Multimodality View package adds the following capabilities:</p> <ul style="list-style-type: none"> <li>· DICOM Query and Retrieve (both DICOM Q/R (SCU and SCP)), allowing the Extended Digital Imaging to Query / Retrieve images from another DICOM node and vice versa.</li> <li>· Import and basic viewing functionality for DICOM images of non X-Ray modalities e.g. MRI, CT, etc.</li> </ul> <p>All DICOM SOP-classes as described in the related DICOM Conformance Statement are supported.</p> <p>DICOM Export/Storage Commit</p> <p>The DICOM Export/Storage Commit package provides exporting capabilities for images from the EasyDiagnost with Extended Digital Imaging to other DICOM workspots, workstations and PACS systems.</p> <p>The DICOM Export packages includes the following capabilities:</p> <ul style="list-style-type: none"> <li>· DICOM Export (DICOM Store (SCU)), allowing the export of images in DICOM format</li> <li>· DICOM Storage Commit (SCU)</li> </ul> <p>All DICOM SOP-classes as described in the DICOM Conformance Statement of Extended Digital Imaging are supported.</p> <p>DICOM Worklist Management</p> <p>DICOM Worklist Management provides the connection to a RIS (Radiology Information System) in order to query and receive patient and examination request information (scheduled worklist).</p>	1



**100475 EasyDiagnost Eleva DRF, Release 5.0**

Line #	Description	Qty
	<p>With the DICOM Worklist Management packages EasyDiagnost Eleva with Digital Imaging or Extended Digital Imaging acts like a DICOM WLM (SCU) with these capabilities:</p> <ul style="list-style-type: none"><li>· Query RIS for current scheduled worklist automatically</li><li>· Query RIS for current scheduled worklist on demand</li><li>· Customize RIS Query</li></ul> <p>All DICOM SOP-classes as described in the DICOM Conformance Statement of Digital Imaging and Extended Digital Imaging are supported.</p> <p>MPPS</p> <p>A DICOM Modality Performed Procedure Step (MPPS) is an information object that describes the activities, conditions and results of an examination (imaging procedure) performed on a modality. The MPPS package is capable of reporting this information back to the connected RIS (Radiology Information System).</p> <p>With the DICOM MPPS package the EasyDiagnost Eleva System supports DICOM MPPS as SCU with the following capabilities:</p> <ul style="list-style-type: none"><li>· Report status of the current examination back to RIS</li><li>· Provide RIS with examination information</li></ul> <p>The MPPS DICOM SOP-class as described in the DICOM Conformance Statement of Extended Digital Imaging is supported.</p> <p>Comprising:</p> <ul style="list-style-type: none"><li>· DICOM Query and Retrieve software and license</li><li>· DICOM Multimodality Import and Viewing software and license</li><li>· DICOM Export software and license</li><li>· DICOM WLM software and license</li><li>· DICOM MPPS software and license</li></ul>	
13	<p><b>Eleva Examination Control-A</b></p> <p><u>Eleva Examination Control</u></p> <p>The Eleva Examination Control (including keyboard and mouse) is a 19" flat panel color TFT LCD display designed for touch input. It offers sturdy hardware buttons to modify most frequently adjusted exposure parameters.</p> <p>It integrates all functions for patient administration, selection of acquisition and fluoroscopy parameters as well as all controls for operating the different subsystems in one user interface.</p> <p>The Eleva Examination Control user interface offers facilities for:</p> <p>Patient and examination administration</p> <p><u>Preparation:</u></p> <ul style="list-style-type: none"><li>• Manual entry of patient data</li><li>• Import of RIS work list (DICOM) (optional)</li><li>• Display of user-defined help text for room preparation and procedure</li></ul> <p><u>Examination:</u></p> <ul style="list-style-type: none"><li>• Automatic adaptation of X-ray parameters depending on patient age, size and weight, as retrieved from RIS</li></ul>	1



# 100475 EasyDiagnost Eleva DRF, Release 5.0

Line #	Description	Qty
	<ul style="list-style-type: none"> <li>Automatic selection of system settings according to scheduled examination from RIS</li> <li>Manual selection of acquisition parameters, like:</li> <li>Auxiliary selection and indication</li> <li>Selection and display of exposure parameters</li> <li>Selection of parameters for special examinations like bolus chasing and full spine scan, etc. (optional)</li> <li>Selection of predefined acquisition programs</li> <li>Selection of different fluoroscopy flavors for pulsed fluoroscopy &amp; Grid Controlled Fluoroscopy (optional)</li> <li>Selection of spectral filters for fluoroscopy and exposure (optional)</li> <li>Collimation on last image hold</li> </ul>	

## Reporting:

- Printouts of dose report (optional)
- Support of DICOM MPPS (optional)
- Display of dose-information either calculated (Option: Dose Calculation) or measured (Option: Dose Measurement)

## Comprising:

- Active Matrix TFT LCD display with anti-reflex touch front, hard coated top sheet
- Wide visible screen size: 19 inches diagonal
- Integrated hardware buttons for control of exposure parameters and system power on/off

### 14 LCD 18" Control Room Monitor 1

#### LCD 18" Control Room Monitor

High-quality 18-inch LCD monitor for medical applications. Its future oriented LCD technique delivers cristal-clear images, displayed absolutely flicker-free. The flat design requires little space in the control room and is as such universally usable.

#### Specification:

- monochrome display 18"
- native format 1280 x 1024 SXGA
- wide viewing angle
- high brightness with brightness control (500 cd/m2)
- internal selectable lookup table for grayscale transfer function

#### Comprising:

- 18 inch LCD monitor
- cable set
- pedestal

### 15 LCD 18" Examination Room Monitor 1

#### LCD 18" Examination Room Monitor

High-quality 18-inch LCD monitor for medical applications. For use in the examination room as live monitor. Its future oriented LCD technique delivers cristal-clear images, displayed absolutely flicker-free. The flat design requires little space in the examination room and is easy to maneuver due to its light weight.

Line #	Description	Qty
	Specification: · monochrome display 18" · native format 1280 x 1024 SXGA · Progressive Display (flicker-free) mode · wide viewing angle · high brightness with brightness control (500 cd/m2) · internal selectable lookup table for grayscale transfer function · internal power supply (110 - 240 VAC) · weight: approx. 10 kg (3,9 lbs) Comprising: · 18-inch LCD monitor · cable set	
16	<b>Monitor Ceiling Suspension</b> <b>Height Adjustable</b> Height-Adjustable Monitor Ceiling Suspension This device supports one or two monitors and allows the user a flexible position of the monitors in the the examination room depending on the application and the preferred working position. The counterbalanced arm holds the monitors at any desirable height and gives free space on the floor. The design allows easy movements and a one-hand use.  Specification: The height-adjustable swivel arm has a: · 430 cm (172 inch) longitudinal travel · 340 degrees rotation · 105 cm (42 inch) vertical range · length of 120 cm (48 inch) Comprising: · monitor ceiling cart · counterbalanced swivel arm · monitor carriage	1
17	<b>Clinical QC</b> This convenient image statistic tool provides the advanced user with functionality to analyze rejected images by operators and rejection reasons. It serves as well for monitoring and analyzing general parameters. Data files can be downloaded for further usage or archiving on a standard PC.  It perfectly supports the quality standards of the department and supports teaching situations.  Comprising: · Software license  Compatible with: · EasyDiagnost Eleva 3.0	1
18	<b>Dose Reporting in DICOM</b> <b>Structured Report format</b>	1

**100475 EasyDiagnost Eleva DRF, Release 5.0**

Line #	Description	Qty
	This DICOM service allows exporting patient radiation dose details in the Structured Report DICOM standard format.	
	Main benefits at a glance	
	<ul style="list-style-type: none"><li>• Standard, modern and comprehensive format for exporting patient radiation exposure information</li><li>• Exports dose information on study (accumulated) and exposure levels</li><li>• Allows detailed exposure dose monitoring on the PACS or dedicated dose management system</li></ul>	
	Typically, one dose report is created at the end of each procedure step performed on the system. This dose report collects together all the irradiation events from the procedure step and cumulates all dose values for the procedure step as a whole.	
	By exporting patient radiation dose in a comprehensive, very detailed and standard format, DICOM Structured Report allows to perform precise dose monitoring and analysis on the PACS or with a dedicated dose management system. This assists institutions to ensure their policies, procedures and protocols are adequate and being followed appropriately in the department. Moreover, it can help determining how changes in techniques and protocols impact radiation dose as well as image quality, to maintain patient doses As Low As Reasonably Achievable (ALARA).	
	Comprising:	
	<ul style="list-style-type: none"><li>• Software license</li></ul>	
	Compatible with:	
	<ul style="list-style-type: none"><li>• EasyDiagnost Eleva 5.x and above</li></ul>	
19	<b>PAIR OF SHOULDER RESTS</b>	<b>1</b>
	SHOULDER SUPPORTS/ Pair of shoulder rests	
20	<b>Ankle Clamps</b>	<b>1</b>
	Ankle clamps For patients in a.p. or p.a. position in connection with shoulder rests. Compatible with: diagnostic tables with footrest provided with 30 mm mounting hole accessory facilities Successor of 9890 010 03601 due to the modification of the bolt.	
21	<b>Stretch grip f. wall stands</b>	<b>1</b>
	To keep the patient's arm overhead or beside the Bucky unit during exposure. To be insert at the Bucky unit at right or left side.	
	Comprising:	
	<ul style="list-style-type: none"><li>• Arm rest, U- shaped for different grip height, tiltable from -90° to +90° for height and side position</li></ul>	



**100475 EasyDiagnost Eleva DRF, Release 5.0**

Line #	Description	Qty
	<ul style="list-style-type: none"><li>• wall holder for parking</li></ul>	
	Compatible with:	
	<ul style="list-style-type: none"><li>• BuckyDiagnost VS (advanced package)</li><li>• BuckyDiagnost VS with digital detector and DigitalDiagnost VM</li></ul>	
22	<b>Set of CS Ceiling Rails</b>	<b>1</b>
	For longitudinal carriages of CS monitor ceiling suspension or auxiliary ceiling suspension; length 4.3 M.	
	Comprising:	
	<ul style="list-style-type: none"><li>• 2 CS rails.</li><li>• Adjustable end/stops.</li><li>• Spacer strips.</li><li>• Fixing parts.</li><li>• Brake rails.</li></ul>	
	Compatible with:	
	<ul style="list-style-type: none"><li>• CS 2 CS 4.</li><li>• Monitor ceiling suspension.</li><li>• Rail extension 9890 010 01622.</li><li>• Rail for cable carrier 9890 010 02422.</li></ul>	
23	<b>Airfare to Cleveland for Biomed Training</b>	<b>1</b>
	Includes one (1) participant's airfare from North American customer location to the Cleveland Training Center (CTC) in Cleveland, Ohio. All other expenses will be the responsibility of the attendee. Details are provided during the scheduling process. Note: Cancellation/rescheduling policy strictly enforced. Expires one (1) year from the earlier of equipment delivery date or purchase date.	
24	<b>Food Transpt Lodging for Cleveland Biomed Training</b>	<b>14</b>
	Includes one (1) day of modest lodging, ground transportation, and meal expenses in Cleveland, Ohio for one (1) attendee. All other expenses will be the responsibility of the attendee. Details are provided during the scheduling process. Note: Cancellation/rescheduling policy strictly enforced. Although this part is only for one day, it is sold in multiple quantities to account for entire length of course. Expires one (1) year from the earlier of equipment delivery date or purchase date.	
25	<b>XD3848C Bio ELEVA-EASY/MULTI SYS.R2 CTC14+</b>	<b>1</b>
	Class Length: 14 days (excludes Saturdays, Sundays, and Philips holidays).	
	Delivery Method: Lecture/Lab	
	Location: Cleveland	
	Accreditation: N/A	

# 100475 EasyDiagnost Eleva DRF, Release 5.0

Line #

Description

Qty

## DESCRIPTION:

The Biomed is trained to a technical level, which will enable him to do the setting to work, calibration, and corrective maintenance on the Windows NT and Windows XP MultiDiagnost Eleva II/TV, and the EasyDiagnost Eleva systems according to the service philosophy.

Prior to attending the course, the student must take XD9016, URF Eleva Basics eLearning and XD9026- URF Eleva Operating eLearning. Both XD9016 & XD9026 are part of this course and there will be no extra cost to obtain these classes.

### Description of XD9016:

Class Length: 8 hours

Delivery Method: CBT

This CBT is intended for those who have finished their basic training as X-ray CS field engineer. After some months of field experience this course will be the entrance to the Eleva Platform systems. The CBT provides fundamental information on fluoroscopy and imaging aspects belonging to the Eleva systems as preparatory training for the course XD3853 URF Eleva Platform.

### Description of XD9026:

Class Length: 3 hours

Delivery Method: CBT

This CBT training will train the Field Service Engineer to a basic level of understanding the Eleva products structure, the Eleva workflow and how to Operate the Eleva Examination console. He is also trained on the basics of operating a ViewForum connected to an Eleva system.

## PREREQUISITES:

Completion the following courses:

XD3002 - X-ray Systems, Basic Part 2 (bundled with: XD9015-X-ray Systems, Basic Part1) or other basic X-ray course, or prior X-ray modality service training/experience

AND-

1 of the following:

XD9016 – URF Eleva Basics

AND-

XD9026- URF Eleva Operating

Additional courses that are recommended:

XD3671(C) - Bucky Diagnost Part 2 (bundled with XD9022-Bucky Part1)

CS9027 - Dicom

CS9020 - Basic Networking

**100475 EasyDiagnost Eleva DRF, Release 5.0**

Line #	Description	Qty
	<b>IMPORTANT Notes Regarding Admission to Philips Customer Engineer Training Courses:</b>	
	<ol style="list-style-type: none"><li>1. Trainee must meet all prerequisites</li><li>2. Course expires one (1) year from equipment installation date (or purchase date if sold separately)</li><li>3. Customer must sign Philips Nondisclosure statement</li><li>4. Trainee must sign Philips Nondisclosure statement</li><li>5. Customer must sign Philips terms and conditions of training</li></ol>	
26	<b>XD9032 Bio EasyDiagDRF</b> eLearn EasyDiagnost Eleva DRF	1
	Course Number: XD9032 Class Length: 4 hours (excludes Saturdays, Sundays, and Philips holidays) Delivery Method: CBT Modality: URF and RAD Location: At home Accreditation: None	
	<b>DESCRIPTION:</b> This CBT training will train the experienced URF Eleva Field Service Engineer, who has already experience with the Essenta DR, to a level of technical knowledge and understanding, which enables him to succesfully work on the EasyDiagnost Eleva DRF. This module covers the radiology part of the EasyDiagnost Eleva DRF.	
	<b>COURSE-WARE:</b> On line	
	All course materials are on CSIP level 1.	
	<b>PREREQUISITES:</b> Engineers attending this course must have: <ul style="list-style-type: none"><li>* Mechanic skills</li><li>* Computer skills</li><li>* Knowledge of URF system architecture</li><li>* Operationg experience with measuring equipment</li><li>* Knowledge of URF Imaging subsystems</li><li>* Knowledge of Dicom/networking</li><li>* Knowledge of the Trixell 4600 digital detector</li><li>* Knowledge of the Application workspot</li></ul>	
	Prior attendance to XD3854C, XD3853 or XD3848 URF Eleva Platform and the: <ul style="list-style-type: none"><li>* XD9013 PCR Basic</li><li>* XD3674 Essenta DR</li></ul>	
	The student has to have field experience on URF Eleva systems and radiology systems.	
	<b>COURSE AIMS:</b> During this course the engineer will be provided with the theoretical knowledge of: <ul style="list-style-type: none"><li>* the major system components</li><li>* the connection between the EasyDiagnost Eleva and the DR part</li></ul>	